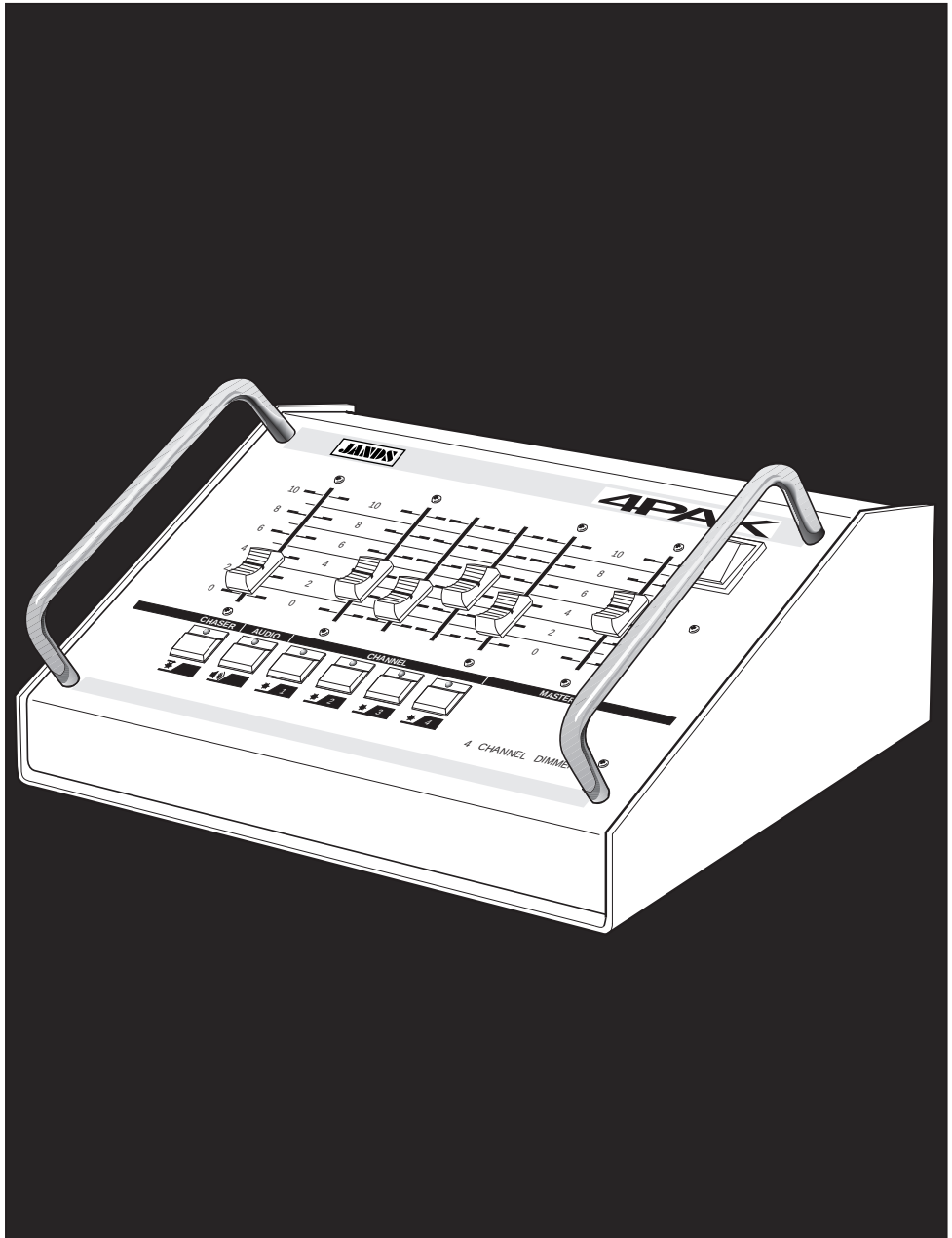
4PAK

FOUR CHANNEL DIMMER

User Manual

JANDS



INTRODUCTION

The 4PAK is a four (4) channel integrated desk/dimmer unit with both normal and audio chase, flash facility and full mastering over all channels. It has been designed for lower budget applications where portability and ease of operation are prime considerations. When used as a stand-alone dimmer, the 4PAK features:-

- Individual channel level control faders
- Full mastering over all channels
- Four channel chaser with level and speed control
- Audio chase facility
- Flash buttons on all channels
- Fully isolated from mains
- Soft turn on (protects bulbs and wiring)
- Overvoltage limit (regulates output against mains voltage variations)
- Sloping front panel
- Solid two piece steel chassis and aluminium base
- 2.4kW total load
- Aesthetic appearance
- Low electrical and audible noise
- "D" Handles for portability and fascia protection.

The Master Link socket allows two (2) 4PAKs to be used together with common mastering facilities. The total combined output of one (1) 4PAK is limited to 10A (2.4kW), which is the maximum power available from any standard 240 VAC G.P.O. outlet. Each unit comes complete with anti-scratch rubber feet and 1.5 metre mains power cord. As with all Jands lighting products, the 4PAK is fully guaranteed for two (2) years against parts and labour.

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MAINTENANCE

With care, the 4PAK will require little or no maintenance. Covering the unit while not in use prevents entry of dust into the faders, increasing useful life. This also minimizes the risk of entry of liquids inside the chassis, which would be both damaging to the unit and dangerous to the operator. During cleaning, do not spray cleaning liquid directly onto the unit, but on to a rag and wipe clean.

Ensure adequate ventilation when in use. When the unit is used as a desktop dimmer, it will feel warm to the touch after prolonged operation at full power. However, as with any electronic equipment, the operating temperature will increase dramatically if the unit is covered or has restricted available ventilation.

OPERATION

After unpacking, check for any obvious transit damage. If damage is apparent, return the unit to the place of purchase.

Unwrap the power cord and plug into a 240 volt G.P.O. Plug four (4) lamps into the four (4) output sockets and switch power on at the wall and front panel. Advance the Master fader and a Channel fader. The mimic LED for that channel will light, at an intensity corresponding to the level of the lamp connected to that channel. The Master fader provides overall control of all four (4) output channels, and also provides level control for the chaser.

The Flash buttons below the Channel faders will always flash to full irrespective of the master level.

To operate the chase, advance the Master fader and press the CHASER ON switch. The Chase rate is adjustable from zero to maximum by the Rate fader on the left. To disable the chaser, press CHASER ON again.

If desired, the chaser can be triggered by audio sound levels via the internal microphone. With the chaser on, press the AUDIO switch. The chaser will now step at a rate determined by the sound intensity.

Both the Chase and Audio functions have LED indicators showing when each function is on.

Note: At no time should the total output from the 4PAK exceed 2.4kW. If this occurs, the fuse will blow. Replace the fuse and take the master to zero before turning it on again. This maximum power (2.4kW) may be supplied by one channel, or a combination of channels.

For example: If four (4) 2.4kW lamps were connected to the four (4) outputs, only one could ever be fully on at any one time. Four (4) 300W lights (such as PAR 56) may be run continuously at “full” without risk of overload tripping.

Note: If the fuse is replaced with one of a different type or rating to the one supplied, the warranty is voided.

MASTER LINK

On the back of the 4PAK is a 6.5mm jack socket. This is used for expansion purposes as follows. If two (2) 4PAKs are used in tandem, Master-Linking (as shown in Figure 1) allows all eight (8) channels to be controlled by a common Master fader. In this mode, the 4PAK Master fader with the highest level setting determines the overall master level. For this reason one (1) Master fader would normally be left at zero and not used. The Master Link can be any working 6.5mm to 6.5mm jack lead, such as a guitar lead.

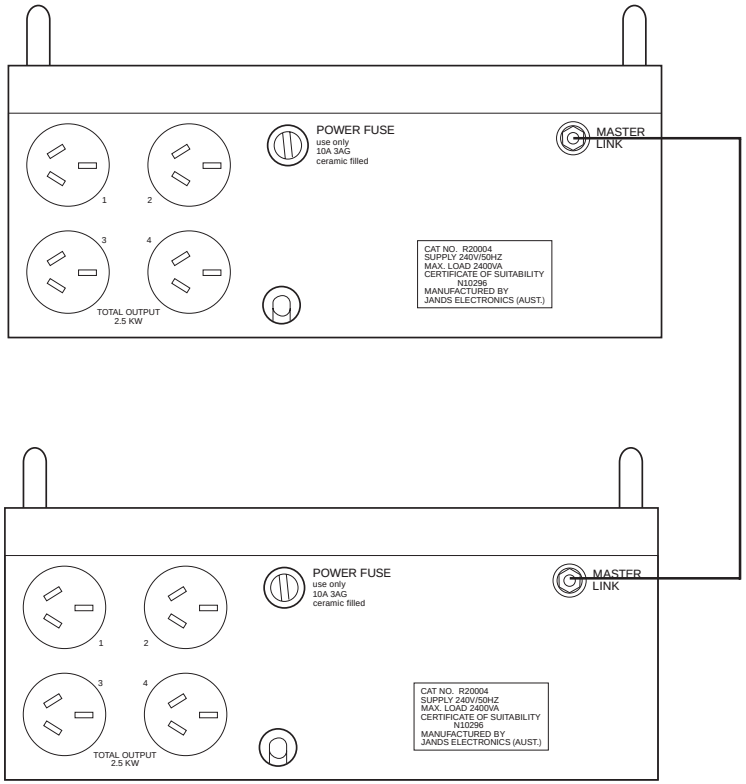

Figure 1. How to Master Link two 4PAKs.

SPECIFICATIONS

Input	240 VAC 50Hz 10A max, single phase
Output	Four channels, max 10A each Total load max 10A
Minimum Output Risetime	80us (1 channel, 2.4kW resistive load)
Protection	10A Ceramic Filled Fuse
Construction	Two piece: steel chassis and aluminium base
Weight	4 kg
Size	290mm (width) x 200mm (depth) x 130mm (height)